April 3, 1978

Memo to File:

Re: Brush Wellman, Inc.
Juab County
ACT/023/003

Revegetation test plots were established on March 29th 1978 by Brian Buck, Mike Thompson and Jim Smith at Brush Wellman's beryllium operation. The experimental sites were selected and staked out on waste dumps in the Blue Chalk and Roadside areas. Two sites were located in each of the areas, one on top of the dump and one on a side slope. Three sites were 100 feet wide by 200 feet long and one site, on a side slope of one of the Roadside dumps, was 50 feet wide by 100 feet long due to lack of an area large enough to accommodate the planned size. Each site was equally divided into four plots, 100 feet by 50 feet, with the Roadside slope area being divided into four plots each 50 feet by 25 feet. The total area of each of the large sites is 20,000 square feet (0.459 areas) and the smaller site is 5,000 square feet (0.115 areas), for an overall area of 65,000 square feet (1.492 acres). The sites on top of the dumps are oriented in an east-west direction lengthwise. The Blue Chalk slope site is oriented to an aspect of 220° with a slope of 24%. The Roadside slope site is oriented to an aspect of 330° with a slope of 49%.

Vegetation on the dumps is practically non-existent with an extremely sparse covering of Russian thistle and halogeton. However, a few isolated specimens of Indian ricegrass, rabbitbrush, shadscale, and spiny hopsage were found in the areas of the grey rhyolite. None were noted in the pink tuff. This may be due to the differences in surface texture; the rhyolite being rougher with small pockets in which the seeds and moisture may become trapped.

Vegetation on the areas adjacent to the dumps was fairly abundant consisting of Indian ricegrass, spiny hopsage, rabbitbrush, shadscale, smooth brome, ephedra, phlox, bitterbrush, big sagebrush, and broom snakeweed.

Soil samples will be obtained from each of the plots for further analyses before scarifying, fertilizing, and seeding which should take place in the fall. Proposed fertilizer application rates may vary as a result of these analyses.

A large flock of sheep was in the immediate area for the spring lambing season. This may result in fencing the test areas to protect them.

JAMES W. SMITH
RECLAMATION SOILS SPECIALIST

JWS/jy